



IFWO

## RAW SEQUENCE LISTING

DATE: 07/27/2004

PATENT APPLICATION: US/10/748,765

TIME: 15:53:27

Input Set : A:\-2-1.app

Output Set: N:\CRF4\07272004\J748765.raw

3 <110> APPLICANT: Gozes, Illana  
 4     Offen, Daniel  
 5     Giladi, Eliezer  
 6     Melamed, Eldad  
 7     Brenneman, Douglas  
 8     Ramot at Tel-Aviv University, Ltd.  
 9     The Government of the United States of America  
 10    as represented by The Secretary of the  
 11    Department of Health and Human Services  
 13 <120> TITLE OF INVENTION: Methods of Treating and/or Preventing Autoimmune  
 14    Diseases  
 16 <130> FILE REFERENCE: 019856-000210US  
 18 <140> CURRENT APPLICATION NUMBER: US 10/748,765  
 19 <141> CURRENT FILING DATE: 2003-12-29  
 21 <150> PRIOR APPLICATION NUMBER: US 60/437,650  
 22 <151> PRIOR FILING DATE: 2003-01-02  
 24 <160> NUMBER OF SEQ ID NOS: 23  
 26 <170> SOFTWARE: PatentIn Ver. 2.1  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 9  
 30 <212> TYPE: PRT  
 31 <213> ORGANISM: Artificial Sequence  
 33 <220> FEATURE:  
 34 <223> OTHER INFORMATION: Description of Artificial Sequence:activity  
 35     dependent neurotrophic factor I (ADNF I) active  
 36     core site (SAL, ADNF-9)  
 38 <400> SEQUENCE: 1  
 39 Ser Ala Leu Leu Arg Ser Ile Pro Ala  
 40    1                    5  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 8  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Artificial Sequence  
 48 <220> FEATURE:  
 49 <223> OTHER INFORMATION: Description of Artificial Sequence:activity  
 50     dependent neurotrophic factor III (ADNF III)  
 51     active core site (NAP)  
 53 <400> SEQUENCE: 2  
 54 Asn Ala Pro Val Ser Ile Pro Gln  
 55    1                    5  
 58 <210> SEQ ID NO: 3  
 59 <211> LENGTH: 14  
 60 <212> TYPE: PRT



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61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
65     polypeptide
67 <400> SEQUENCE: 3
68 Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
69   1             5             10
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 19
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
79     polypeptide
81 <400> SEQUENCE: 4
82 Val Glu Glu Gly Ile Val Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser
83   1             5             10             15
85 Ile Pro Ala
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 13
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
95     polypeptide
97 <400> SEQUENCE: 5
98 Leu Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
99   1             5             10
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 12
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
109     polypeptide
111 <400> SEQUENCE: 6
112 Gly Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
113   1             5             10
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 11
118 <212> TYPE: PRT
119 <213> ORGANISM: Artificial Sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
123     polypeptide
125 <400> SEQUENCE: 7
126 Gly Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
127   1             5             10
130 <210> SEQ ID NO: 8

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131 <211> LENGTH: 10
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
137     polypeptide
139 <400> SEQUENCE: 8
140 Gly Ser Ala Leu Leu Arg Ser Ile Pro Ala
141   1             5             10
144 <210> SEQ ID NO: 9
145 <211> LENGTH: 10
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III
151     polypeptide
153 <400> SEQUENCE: 9
154 Gly Gly Asn Ala Pro Val Ser Ile Pro Gln
155   1             5             10
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 13
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III
165     polypeptide
167 <400> SEQUENCE: 10
168 Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser
169   1             5             10
172 <210> SEQ ID NO: 11
173 <211> LENGTH: 15
174 <212> TYPE: PRT
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III
179     polypeptide
181 <400> SEQUENCE: 11
182 Leu Gly Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln Gln Ser
183   1             5             10             15
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 18
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III
193     polypeptide
195 <400> SEQUENCE: 12
196 Ser Val Arg Leu Gly Leu Gly Gly Asn Ala Pro Val Ser Ile Pro Gln
197   1             5             10             15

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199 Gln Ser
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 89
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF I
209     polypeptide
211 <220> FEATURE:
212 <221> NAME/KEY: MOD_RES
213 <222> LOCATION: (1)..(40)
214 <223> OTHER INFORMATION: Xaa = any naturally occurring amino acid or known
215     analogue of a natural amino acid, Xaa at positions
216     1-40 may be present or absent
218 <220> FEATURE:
219 <221> NAME/KEY: MOD_RES
220 <222> LOCATION: (50)..(89)
221 <223> OTHER INFORMATION: Xaa = any naturally occurring amino acid or known
222     analogue of a natural amino acid, Xaa at positions
223     50-89 may be present or absent
225 <400> SEQUENCE: 13
W--> 226 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
227      1              5              10              15
229 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
230      20              25              30
232 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ala Leu Leu Arg Ser Ile Pro
233      35              40              45
235 Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
236      50              55              60
238 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
239      65              70              75              80
241 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
242      85
245 <210> SEQ ID NO: 14
246 <211> LENGTH: 88
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence:ADNF III
252     polypeptide
254 <220> FEATURE:
255 <221> NAME/KEY: MOD_RES
256 <222> LOCATION: (1)..(40)
257 <223> OTHER INFORMATION: Xaa = any naturally occurring amino acid or known
258     analogue of a natural amino acid, Xaa at positions
259     1-40 may be present or absent
261 <220> FEATURE:
262 <221> NAME/KEY: MOD_RES
263 <222> LOCATION: (49)..(88)

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264 <223> OTHER INFORMATION: Xaa = any naturally occurring amino acid or known  
 265 analogue of a natural amino acid, Xaa at positions  
 266 49-88 may be present or absent  
 268 <400> SEQUENCE: 14

W--> 269 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 270 1 5 10 15  
 272 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 273 20 25 30  
 275 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Ala Pro Val Ser Ile Pro Gln  
 276 35 40 45  
 278 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 279 50 55 60  
 281 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 282 65 70 75 80  
 284 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 285 85

288 <210> SEQ ID NO: 15  
 289 <211> LENGTH: 5  
 290 <212> TYPE: PRT  
 291 <213> ORGANISM: Artificial Sequence  
 293 <220> FEATURE:  
 294 <223> OTHER INFORMATION: Description of Artificial Sequence:1-R or 2-R  
 295 within the formula for ADNF I polypeptide  
 297 <400> SEQUENCE: 15  
 298 Val Leu Gly Gly Gly  
 299 1 5  
 302 <210> SEQ ID NO: 16  
 303 <211> LENGTH: 4  
 304 <212> TYPE: PRT  
 305 <213> ORGANISM: Artificial Sequence  
 307 <220> FEATURE:  
 308 <223> OTHER INFORMATION: Description of Artificial Sequence:2-R within the  
 309 formula for ADNF I polypeptide  
 311 <400> SEQUENCE: 16  
 312 Val Leu Gly Gly  
 313 1  
 316 <210> SEQ ID NO: 17  
 317 <211> LENGTH: 5  
 318 <212> TYPE: PRT  
 319 <213> ORGANISM: Artificial Sequence  
 321 <220> FEATURE:  
 322 <223> OTHER INFORMATION: Description of Artificial Sequence:2-R within the  
 323 formula for ADNF I polypeptide  
 325 <400> SEQUENCE: 17  
 326 Val Leu Gly Gly Val  
 327 1 5  
 330 <210> SEQ ID NO: 18  
 331 <211> LENGTH: 5  
 332 <212> TYPE: PRT

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/748,765

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. ~~1~~ 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:13; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,50  
Seq#:13; Xaa Pos. 51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69  
Seq#:13; Xaa Pos. 70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88  
Seq#:13; Xaa Pos. 89  
Seq#:14; Xaa Pos. ~~1~~ 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22  
Seq#:14; Xaa Pos. 23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,48  
Seq#:14; Xaa Pos. 50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68  
Seq#:14; Xaa Pos. 69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87  
Seq#:14; Xaa Pos. 88

**VERIFICATION SUMMARY**

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Input Set : A:\-2-1.app

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L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0

M:341 Repeated in SeqNo=13

L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0

M:341 Repeated in SeqNo=14